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# REQUEST FOR ACCESS TO AN APPLICATION UNDER 37 CFR 1.14(e)

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In re Application of

Application Number

08/639,530

Filed

May 1, 1996

Art Unit

Examiner

Paper No. 816

Assistant Commissioner for Patents  
Washington, DC 20231

1. ☐ I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

☒ (A) referred to in:

United States Patent Application Publication No. 6,305,396, page \_\_\_\_\_, line \_\_\_\_\_,

United States Patent Number \_\_\_\_\_, column \_\_\_\_\_, line \_\_\_\_\_, or

an International Application which was filed on or after November 29, 2000 and which

designates the United States, WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

☐ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11(b) or

1.14(e)(2)(i), i.e., Application No. \_\_\_\_\_, paper No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

2. ☐ I hereby request access under 37 CFR 1.14(e)(1) to an application in which the applicant has filed an authorization to lay open the complete application to the public.

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US006305396B1

(12) **United States Patent**  
**Zheng**

(10) **Patent No.:** **US 6,305,396 B1**  
(45) **Date of Patent:** **Oct. 23, 2001**

(54) **COLLAPSIBLE STRUCTURES**

(75) **Inventor:** Yu Zheng, Walnut, CA (US)

(73) **Assignee:** Patent Category Corp., Walnut, CA (US)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

4,815,784	3/1989	Zheng	
5,024,262	6/1991	Huang	
5,038,812	8/1991	Norman	
5,222,513	6/1993	Hilliard	
5,301,705	4/1994	Zheng	135/104
5,467,794	11/1995	Zheng	135/125
5,555,679	9/1996	Scherba	52/2.18
5,592,961	1/1997	Chin	
5,778,915	7/1998	Zheng	
5,800,067	9/1998	Easter	
6,109,281	8/2000	Lowenthal	135/125

(21) **Appl. No.:** 09/543,245

(22) **Filed:** Apr. 5, 2000

**Related U.S. Application Data**

(60) Continuation-in-part of application No. 08/639,530, filed on May 1, 1996, which is a division of application No. 08/529,552, filed on Sep. 18, 1995, now Pat. No. 5,579,799, which is a continuation of application No. 08/024,690, filed on Mar. 1, 1993, now Pat. No. 5,467,794, which is a continuation-in-part of application No. 07/764,784, filed on Sep. 24, 1991, now Pat. No. 5,301,705.

(51) **Int. Cl.<sup>7</sup>** E04H 15/40

(52) **U.S. Cl.** 135/126; 135/128; 135/115; 135/143

(58) **Field of Search** 135/125, 126, 135/128, 143, 157, 115

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,073,105	2/1978	Daugherty	
4,212,130	7/1980	Walker	
4,632,138	12/1986	Irwin	135/109
4,635,411	1/1987	Kurzen	

**OTHER PUBLICATIONS**

Advertisement for "Insta-Coil Blind" from the Fall 1996 Cabela's Catalog p. 282, Found in 135/126.\*

\* cited by examiner.

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(74) **Attorney, Agent, or Firm**—Raymond Sun

(57) **ABSTRACT**

A collapsible structure includes a plurality of foldable frame members each having a folded and an unfolded orientation. A fabric material is provided for covering portions of the frame members to form a side panel for each frame member. The structure can have a removable roof. The structure may be folded and stored by folding the side panels and their corresponding frame members on top of each other about the hinge portions to have the side panels and frame members overlying each other. The overlaying side panels and frame members are then collapsed by twisting and folding to form a plurality of concentric frame members and side panels to substantially reduce the size of the shade structure.

**10 Claims, 18 Drawing Sheets**

